RAMAIAH
Institute of Technology

Intra Internship INT 410: Details and Schedule

(August 2025)

Course Name	**Hybrid Web Development**
Offering Department	**Information Science and Engineering**
Teaching Department	**Information Science and Engineering**
Total No. of Students Registered	**278**
No. of Sections	**4, Name of the Sections: A,B,C and D: Each 70 No. of students**
Conduction: Laboratory Name (On all days)	**Laboratory 1-ISE Dept. Laboratory 2-ISE Dept. (Both in DES Block), Laboratory-3 ISE Dept. : ESB Block**
No of Faculty required for each session	**2**
Faculty Co-ordinator from ISE	**Dr. Sumana M, Professor and HoD**

Time Table

Date and Day	**Time**			
	9am to 1pm Lab-1	**9am to 1pm Lab-2**	**1.00pm to 5.00pm Lab-1**	**1.00pm to 5.00pm Lab-2**
05.08.2025 Tuesday	Section: A Faculty **GV, SG**	Section: B Faculty: **PMN, ED**	Section: C Faculty: **PRA,SKR**	Section: D Faculty: **GV,SG**
06.08.2025 Wednesday	Section: A Faculty: **SKS,DM**	Section: B Faculty: **AP,PSR**	Section: C Faculty: **SM , ED**	Section: D Faculty: **AP,PSR**
07.08.2025 Thursday	Section: A Faculty: **LMM,SP**	Section: B Faculty: **PRA,SKR**	Section: C Faculty: **PRA,SKR**	Section: D Faculty: **SKS,DM**
11.08.2025 Monday	Section: A Faculty: **LMM,PMN**	Section: B Faculty: **AP,PSR**	Section: C Faculty: **SKS,DM**	Section: D Faculty:**LMM,SJR**
12.08.2025 Tuesday	Section: A Faculty: **AK** *Test & Demo*	Section: B Faculty: **DM** *Test & Demo*	Section: C Faculty**: ED** *Test & Demo*	Section: D Faculty: **PMN** *Test & Demo*

Lab Staff:

5-08-2025:

ISE Lab 1: 9:00am to 1:00pm – Shashikala, 1:00 to 5:00pm – Nancy

ISE Lab 2: 9:00am to 1:00pm – Srinidhi, 1:00 to 5:00pm – Murali

6-08-2025:

ISE Lab 1: 9:00am to 1:00pm – Nancy, 1:00 to 5:00pm – Shashikala

ISE Lab 2: 9:00am to 1:00pm – Murali, 1:00 to 5:00pm – Srinidhi

7-08-2025:

ISE Lab 1: 9:00am to 1:00pm – Shashikala, 1:00 to 5:00pm – Nancy

ISE Lab 2: 9:00am to 1:00pm – Srinidhi, 1:00 to 5:00pm – Murali

11-08-2025:

ISE Lab 1: 9:00am to 1:00pm – Nancy, 1:00 to 5:00pm – Shashikala

ISE Lab 2: 9:00am to 1:00pm – Murali, 1:00 to 5:00pm – Srinidhi

12-08-2025:

ISE Lab 1: 9:00am to 1:00pm – Shashikala, 1:00 to 5:00pm – Nancy

ISE Lab 2: 9:00am to 1:00pm – Srinidhi, 1:00 to 5:00pm – Murali

List of topics to be covered:

Date and Day	Topics
05.08.2025 Tuesday	Faculty to brief on Introduction – Why Hybrid Web development, Purpose of HTML, CSS, Javascript, responsive and dynamic web pages. HTML elements- images, audio, video, forms, tables, lists, Div, classes, ID, Responsive, emojis.
06.08.2025 Wednesday	CSS properties – Font, text, borders, margins, background, box model, tables, navigation bars, dropdowns, website layout, animations, pagination.
07.08.2025 Thursday	Javascript: Introduction & Basics, Operators and Control Structures, Functions and Scope, Arrays and Objects
11.08.2025 Monday	Javascript : Events and DOM Manipulation, Form Handling and Validation, ECMAScript 2025 – RegExp, Sets
12.08.2025 Tuesday	Final Project Demo [two per team] and evaluation

Note: The faculty need to assist students in completion of the assign the topics mentioned day-wise in the above table.

Initials	Name
AK	Dr Anita Kanavalli
SM	Dr Sumana M
GV	Dr Geetha V
LMM	Dr Lincy Meera Mathews
PMN	Dr Pushpalatha M N
SKS	Dr Savita K Shetty
AP	Dr Anitha P
PSR	Prathima M N
PRA	Prashanth Kambli
SKR	Suresh Kumar R
SG	Dr Shruthi G
ED	Evangeline D
DM	Mushtaq Ahmed D M
SJR	Shruti J R
SP	Shanmuga Priya R

Assignment Questions:

Day 1 (5/8/2025) : HTML Assignments

1. **Semantic Web Page**
   Create a blog page using semantic HTML5 elements: <header>, <nav>, <article>, <section>, <aside>, and <footer>. Include at least two articles with headings, paragraphs, and images.

2. **Form with Validation Attributes**
   Build a contact form that includes these input types: text, email, phone, date, and message (textarea). Use HTML5 validation attributes such as required, pattern, min, and max.

3. **Multi-page Website Structure**
   Design a small website with three pages (Home, About, Contact). Ensure proper navigation with working links between pages using relative paths.

4. **Embed Multimedia Content**
   Embed a video and an audio file using the <video> and <audio> tags respectively. Include controls and fallback text for browsers that do not support these tags.

5. **Pricing Table**
   Create a table showing different pricing plans with headers, footers, and merged cells using colspan and rowspan attributes.

6. **Nested Lists for Navigation**
   Create a vertical navigation menu with nested lists to represent dropdown items (no JavaScript needed; just HTML structure).

7. **HTML5 Form Elements**
   Create a registration form using advanced input types such as date pickers, range sliders, color pickers, and datalists to provide suggested options.

8. **Custom HTML Resume**
   Build a simple resume page using headings, paragraphs, lists, and links that outline your education, experience, and skills.

Day 2(6/8/2025): CSS Assignments

1. **Responsive Photo Gallery using CSS Grid**
   Design a photo gallery that automatically adjusts the number of columns based on the screen size using CSS Grid and media queries.

2. **Flexbox Navigation Bar**
   Create a horizontal navigation bar using Flexbox that changes into a vertical stacked menu on small screens (using media queries).

3. **CSS Transitions and Hover Effects**
   Style buttons or cards to include smooth transitions and hover effects such as scaling, color change, or shadow.

4. **Style a Form**
   Style the contact form created on Day 1 with custom fonts, colors, padding, borders, and focus effects on inputs.

5. **Theming with CSS Variables**
   Define CSS variables for primary colors and fonts, then use them throughout a page to create a consistent theme.

6. **Responsive Typography**
   Use relative units (em, rem, vw) for font sizes and implement media queries to adjust font size for different screen widths.

7. **UI Card Design**
   Build a card component with an image, title, description, rounded corners, box shadow, and padding.

8. **CSS-only Accordion**
   Create an accordion component using only HTML and CSS, with checkboxes or radio buttons controlling the open/close state.

Day 3(7/8/2025): JavaScript (Part 1) Assignments

1. **Introduction & Basics**

Write a JavaScript program to print your name, age, and city in the console.

2. **Operators**
   Create a program that takes two numbers and prints the result of addition, subtraction, multiplication, and division. DOM Manipulation

Control Structures

3. Write a program to check if a number is even or odd using an if-else statement.
4. Write a program to print all numbers from 1 to 10 using a for loop.

Functions and Scope

5. Write a function called greetUser(name) that takes a name and returns a greeting message.
6. Write a function isAdult(age) that returns true if age is 18 or above, otherwise false. Test it with different ages.

Arrays and Objects

7. Create an array of your 5 favourite colours. Use a loop to print each colour on a new line.

8**.** Create a person object with name, age, and city. Write code to access and print each property of the object.

Day 4(11/8/2025): JavaScript (Part 2) Assignments

1. Create a button that changes the background color of the page when clicked.
(Hint: Use addEventListener and document.body.style.)

2. Build a simple counter app with "+" and "–" buttons. Display the value and update it as the buttons are clicked.

3. Write a script to change the content of a when the user hovers over it.
(Hint: Use mouseover and mouseout events.)

Form Handling and Validation

4. Create a form with fields: Name, Email, and Age. Write JavaScript to validate that:
   Name is not empty
   Email includes @
   Age is a number between 18 and 60

5. On form submission, prevent page reload and display form data below the form in a paragraph.
(Hint: Use event.preventDefault() and DOM methods.)
6. Write a JavaScript function using RegExp that checks whether a given string is a valid phone number.
   (e.g., Format: 987-654-3210)

7. Write a script to remove duplicate items from an array using a Set.
   Input: ["apple", "banana", "apple", "orange", "banana"]
   Output: ["apple", "banana", "orange"]

8. Create a Set that stores only unique numbers from an input array, and then find the size of the Set.

Day 5(12/08/2025 - Demonstration of project with report submission)

Project requirements

1. **Project Planning**
   Simple project plan outlining the features, layout, and pages/components you will build.

2. **Responsive Landing Page Layout**
   Create a landing page using CSS Grid/Flexbox that adapts to desktop and mobile screens.

3. **Navigation Menu with Active State**
   Build a navigation bar where the current page's menu item is highlighted, using JavaScript to add an active class.

4. **Feature Cards with Dynamic Content**
   Dynamically create feature cards using JavaScript arrays and display them on the page.

5. **Interactive Form with Validation and Storage**
   Build a form that includes JavaScript validation and saves the user's data to local storage.

6. **Light/Dark Mode Integration**
   Implement the light/dark mode toggle across the project and remember the user's preference.